



**SDI Review Form 1.6**

Journal Name:	<b><u>Physical Science International Journal</u></b>
Manuscript Number:	<b>Ms_PSIJ_29206</b>
Title of the Manuscript:	<b>Criticality Study for Large Masses of Low Enriched Uranium Samples in an Active Well Neutron Coincidence Counter</b>
Type of the Article	<b>Original Research Article</b>

**General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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**PART 1: Review Comments**

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Compulsory</b> REVISION comments	<p><b>Line 8-9: The abstract must be reconstructed to standard, as its need not to have subheadings like Place and Duration(not necessary), Methodology, e.t.c.</b></p> <p><b>Line 43-83: Model was mentioned but the model formulae used to get the results is missing.</b></p> <p><b>Line 87-88: The diagram seem copy and paste and not explicit. It is not also clear enough, reference is sought.</b></p> <p><b>Line 96-100: Same comment as Line 87 – 88.</b></p> <p><b>Line 168-192: Same comment as Line 87 – 88.</b></p> <p><b>Line 216-226: The possible effect of hydrogen been inflammable during thermal reaction with respect to the uranium, the rod and water need to stated clearly, as this could cause explosion if the hydrogen is expose to air.</b></p>	<p><b>Done:</b> the reviewer comment is considered (although the sample copy indicating subtitles).</p> <p>The AWCC and nuclear materials were modelled using the MCNP Monte Carlo Code. It is a numerical and not a mathematical model.</p> <p>These diagrams were directly taken from the MCNP visual editor, which was thought to be more reliable.</p> <p>However, the diagrams are redrawn with higher resolutions as required.</p> <p>The statement is modified to reflect the increase in hydrogen mass fraction as the quantity of water increased (it is not hydrogen gas).</p>
<b>Minor</b> REVISION comments	<p><b>Line 313-364: The references are not consistence. Some them have pages and volume stated before year while others are otherwise. Also in reference number 6, the heading is not stated</b></p>	<p>Done</p> <p>All reference were revisited and modified/completed according to template and reviewer comments.</p>
<b>Optional/General</b> comments	The author should consider and amend all the comments above before publishing.	Done